IN THE CLAIMS:

- 1. (Original): A repeating radio frequency transmission system comprising:
 - (a) a transmitter capable of being placed in signal communication with an infrared remote control, the transmitter comprising:
 - a detector configured to receive a first infrared control signal from the infrared remote control and generate a first electrical signal according to the first infrared control signal;
 - (2) a buffer coupled with the detector to store at least a portion of the first electrical signal;
 - (3) a first code register for storing a first identification signal;
 - (4) a multiplexor for combining the first electrical signal and the first identification signal into a first augmented electrical signal; and
 - (5) a radio frequency transmitter responsive to the first augmented electrical signal for transmitting a radio signal representative of the first augmented electrical signal; and
 - (b) a receiver capable of being placed in infrared control signal communication with a controlled device, the receiver comprising:
 - a radio frequency receiver configured to receive the transmitted radio signal and for generating a second augmented electrical signal according to the received radio signal;
 - (2) a second code register for storing a second identification signal;
 - (3) a code detector for detecting the presence of the second identification signal within the second augmented electrical signal;

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- (4) a second multiplexor in communication with the code detector for removing the second identification signal from the second augmented signal, leaving a second electronic signal;
- (5) an infrared emitter responsive to the second electronic signal for transmitting a second infrared control signal to the controlled device.
- 2. (Original): The repeating radio frequency transmission system of Claim 1, wherein the first and second code registers are Dual Inline Package switches.
- 3. (Original): The repeating radio frequency transmission system of Claim 1, wherein the first and second code registers are Read Only Memory.
- 4. (Original): The repeating radio frequency transmission system of Claim 1, wherein the first and second code registers are logical latches.
- 5. (Original): The repeating radio frequency transmission system of Claim 1, wherein the first and second code registers are Programmable Read Only Memory.
- 6. (Original): The repeating radio frequency transmission system of Claim 5, wherein the identification signal is stored in code registers by actuation of user-controlled switches.
- 7. (Original): The repeating radio frequency transmission system of Claim 5, wherein the identification signal is stored in code registers through actuation of user-controlled switches on the infrared remote control system.
- 8. (Original): The repeating radio frequency transmission system of Claim 5, wherein the identification signal is stored code registers by downloading codes from a computer.
- 9. (Original): The repeating radio frequency transmission system of Claim 1, wherein a plurality first identification signals are stored in the first code register.

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- 10. (Original): The repeating radio frequency transmission system of Claim 9, wherein actuation of user-controlled switches determines which of the plurality of first identification signals stored in the code registers is available to the multiplexor.
- 11. (Original): The repeating radio frequency transmission system of Claim 10, wherein each of the plurality of identification codes are stored in one of the plurality of receivers.
- 12. (Original): The repeating radio frequency transmission system of Claim 11, wherein the user controlled switches are labeled to correspond with the devices controlled by each of the one or more receivers.
- 13. (Original): The repeating radio frequency transmission system of Claim 1, wherein a plurality of the first electrical signals are stored in the register.
- 14. (Original): The repeating radio frequency transmission system of Claim 13, wherein each or the plurality of first electrical signals is associated with a distinct function of a controlled device.
- 15. (Original): The repeating radio frequency transmission system of Claim 14, wherein each transmitter comprises a plurality of user-controlled switches for designating which of the associated first electrical signals is made available to the multiplexor.
- 16. (Original): The repeating radio frequency transmission system of Claim 15, wherein a plurality of the first electrical signals are stored in association with a plurality of controlled devices.
- 17. (Original): The repeating radio frequency transmission system of Claim 16, wherein each transmitter comprises a plurality of user-controlled switches for designating one of the plurality of controlled devices.

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- 18. (Original): The repeating radio frequency transmission system of Claim 1, wherein the transmitter is mechanically coupled to the infrared remote control.
 - 19. (Original): A repeating radio frequency transmission system comprising:
 - (a) a transmitter capable of being placed in signal communication with an infrared remote control, the transmitter comprising:
 - a detector configured to receive a first infrared control signal from the infrared remote control and generate a first electrical signal according to the first infrared control signal;
 - (2) a buffer coupled with the detector to store at least a portion of the first electrical signal;
 - (3) a first code register storing a first identification signal;
 - (4) a modulator to convert the first electrical signal to a first radio signal;
 - (5) a multiplexor for combining the first radio signal and the first identification signal into an augmented radio signal; and
 - (6) a first antenna responsive to the augmented radio signal for transmitting the augmented radio signal; and
 - (b) one or more receivers capable of being placed in infrared control signal communication with a controlled device, the receiver comprising:
 - (1) a second antenna to receive the augmented radio signal;
 - (2) a second code register for storing a second identification signal;
 - (3) a code detector for detecting the presence of the second identification signal within the augmented radio signal;
 - (4) a second multiplexor in communication with the code detector for removing the second identification signal from the augmented radio signal, leaving a second radio signal;

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- (5) a demodulator to convert the second radio signal to a second electronic signal; and
- (6) an infrared emitter responsive to the second electronic signal for transmitting a second infrared control signal to the controlled device.
- 20. (Original): The repeating radio frequency transmission system of Claim 19, wherein the first and second code registers are Dual Inline Package switches.
- 21. (Original): The repeating radio frequency transmission system of Claim 19, wherein the first and second code registers are Read Only Memory.
- 22. (Original): The repeating radio frequency transmission system of Claim 19, wherein the first and second code registers are logical latches.
- 23. (Original): The repeating radio frequency transmission system of Claim 19, wherein the first and second code registers are Programmable Read Only Memory.
- 24. (Original): The repeating radio frequency transmission system of Claim 23, wherein the identification signal is stored in code registers by actuation of user-controlled switches.
- 25. (Original): The repeating radio frequency transmission system of Claim 23, wherein the identification signal is stored in code registers through actuation of user-controlled switches on the infrared remote control system.
- 26. (Original): The repeating radio frequency transmission system of Claim 23, wherein the identification signal is stored code registers by downloading codes from a computer.
- 27. (Original): The repeating radio frequency transmission system of Claim 19, wherein a plurality first identification signals are stored in the first code register.

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- 28. (Original): The repeating radio frequency transmission system of Claim 27, wherein actuation of user-controlled switches determines which of the plurality of first identification signals stored in the code registers is available to the multiplexor.
- 29. (Original): The repeating radio frequency transmission system of Claim 28, wherein each of the plurality of identification codes are stored in one of the plurality of receivers.
- 30. (Original): The repeating radio frequency transmission system of Claim 29, wherein the user controlled switches are labeled to correspond with the devices controlled by each of the one or more receivers.
- 31. (Original): The repeating radio frequency transmission system of Claim 19, wherein a plurality of the first electrical signals are stored in the register.
- 32. (Original): The repeating radio frequency transmission system of Claim 31, wherein each or the plurality of first electrical signals is associated with a distinct function of a controlled device.
- 33. (Original): The repeating radio frequency transmission system of Claim 32, wherein each transmitter comprises a plurality of user-controlled switches for designating which of the associated first electrical signals is made available to the multiplexor.
- 34. (Currently Amended): The repeating radio frequency transmission system of Claim 3433, wherein a plurality of the first electrical signals are stored in association with a plurality of controlled devices.
- 35. (Currently Amended): The repeating radio frequency transmission system of Claim 3534, wherein each transmitter comprises a plurality of user-controlled switches for designating one of the plurality of controlled devices.

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36. (Original): The repeating radio frequency transmission system of Claim 19, wherein the transmitter is mechanically coupled to the infrared remote control.

37-73. (Canceled)

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